MERCHANT, GOULD, SMITH, EDELL, WELTER & SCHMIDT

United States Patent Application

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

are named below) of the s	am the original, first and sole inventor subject matter which is claimed and for JCING PRINTED WIRING BOARDS	which a patent is sought on the in	or a joint inventor (if plural inventor nvention entitled:
The specification of which a. (X) is attached hereto b. (was filed on application) described and for which I solicit a Unite	as application serial no and ward claimed in international no file	s amended on (if applicabled and as amended on	e) (in the case of a PCT-filed (if any), which I have reviewed and
I hereby state that I have any amendment referred	reviewed and understand the contents o to above.	f the above-identified specification	on, including the claims, as amended b
I acknowledge the duty to of Federal Regulations, §	disclose information which is material 1.56 (attached hereto).	to the patentability of this applic	ation in accordance with Title 37, Coc
inventor's certificate liste date before that of the ap	iority benefits under Title 35, United Set below and have also identified below plication on the basis of which priority has have been filed. have been filed as follows:	any foreign application for pater	eign application(s) for patent or at or inventor's certificate having a fili
o. g such approximate	FOREIGN APPLICATION(S), IF ANY,	CLAIMING PRIORITY UNDER 35 U	SC § 119
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
Japan	8-236142	6 September 1996	
A	ALL FOREIGN APPLICATION(S), IF ANY,	FILED BEFORE THE PRIORITY AP	PLICATION(S)
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) lists below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application is the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior applicat and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)			

I hereby appoint the foll wing attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

naix office connected herewith.			
Adriano, Sarah B.	Reg. No. 34,470	Kettelberger, Denise	Reg. No. 33,924
Albrecht, John W.	Reg. No. P-40,481	Komanduri, Janaki	Reg. No. P-40,684
Batzli, Brian H.	Reg. No. 32,960	Kowalchyk, Alan W.	Reg. No. 31,535
Beard, John L.	Reg. No. 27,612	Kowalchyk, Katherine M.	Reg. No. 36,848
Beck, Robert C.	Reg. No. 28,184	Lacy, Paul E.	Reg. No. 38,946
Bejin, Thomas E.	Reg. No. 37,089	Lasky, Michael B.	Reg. No. 29,555
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Carter, Charles G.	Reg. No. 35,093	McIntyre, Iain A.	Reg. No. 40,377
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Daley, Dennis R.	Reg. No. 34,994	Pollinger, Steven J.	Reg. No. 35,326
Dalglish, Leslie E.	Reg. No. P-40,579	Reich, John C.	Reg. No. 37,703
Daulton, Julie R.	Reg. No. 36,414	Reiland, Earl D.	Reg. No. 25,767
Davidson, Ben M.	Reg. No. 38,424	Schmaltz, David G.	Reg. No. 39,828
DiPietro, Mark J.	Reg. No. 28,707	Schmidt, Cecil C.	Reg. No. 20,566
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Epp Ryan, Sandra	Reg. No. 39,667	Schumann, Michael D.	Reg. No. 30,422
Farber, Michael B.	Reg. No. 32,612	Sebald, Gregory A.	Reg. No. 33,280
Funk, Steven R.	Reg. No. 37,830	Sharp, Janice A.	Reg. No. 34,051
Gabilan, Mary Susan	Reg. No. 38,729	Skoog, Mark T.	Reg. No. 40,178
Gates, George H.	Reg. No. 33,500	Smith, Jerome R.	Reg. N . 35,684
Glance, Robert J.	Reg. No. P-40,620	Stinebruner, Scott A.	Reg. No. 38,323
Golla, Charles E.	Reg. No. 26,896	Sumner, John P.	Reg. No. 29,114
Gorman, Alan G.	Reg. No. 38,472	Sumners, John S.	Reg. No. 24,216
Gould, John D.	Reg. No. 18,223	Tellekson, David K.	Reg. No. 32,314
Gresens, John J.	Reg. No. 33,112	Underhill, Albert L.	Reg. No. 27,403
Hamre, Curtis B.	Reg. No. 29,165	Vandenburgh, J. Derek	Reg. No. 32,179
Hillson, Randall A.	Reg. No. 31,838	Welter, Paul A.	Reg. No. 20,890
Hollingsworth, Mark A.	Reg. No. 38,491	Williams, Douglas J.	Reg. No. 27,054
Johnston, Scott W.	Reg. No. 39,721	Wood, Gregory B.	Reg. No. 28,133
Kastelic, Joseph M.	Reg. No. 37,160	Xu, Min S.	Reg. No. 39,536

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosur to be represented unless/until I instruct Merchant, Gould, Smith, Edell, Welter & Schmidt to the contrary.

Please direct all correspondence in this case to Merchant, Gould, Smith, Edell, Welter & Schmidt at the address indicated below:

Merchant, Gould, Smith, Edell, Welter & Schmidt 3100 Norwest Center 90 South Seventh Street Minneapolis, MN 55402-4131

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so mad are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Full Name	Family Name	First Given Name	!	Second Given Name
2	Of Inventor	TSUKAMOTO	Masahide		
0	Residence & Citizenship	City Nara	State or Foreign Country Japan		Country of Citizenship Japan
1	Post Office Address	Post Office Address 30-14, Tomio Izumigaoka, Nara-shi	City Nara		State & Zip Code/Country 631 Japan
Signature of Inventor 201: Quantité suleamote				Date:	Jugust 26, 1897
2	Full Name Of Inventor	Family Name HASEGAWA	First Given Name Masanaru		Second Given Name
0	Residence & Citizenship	City Kyoto	State or Foreign Country Japan		Country of Citizenship Japan
2	Post Office Address	Post Office Address 14-52, Yawata Kakigatani, Yawata-shi	City Kyoto		State & Zip Code/Country 614 Japan
Signature of Inventor 202: Masanaru Hasegawa			Date:	August 26,1997	
2	Full Name Of Inventor	Family Name HATANAKA	First Given Name Hideo		Second Given Name
0	Residence & Citizenship	City Osaka	State or Foreign Country Japan		Country of Citizenship Japan
3	Post Office Address	Post Office Address 7-5-11, Myokenzaka, Katano-shi	City Osaka		State & Zip Code/Country 576 Japan
Signature of Inventor 203: Hidea Hatanaka				Date:	Jugust 26, 1997
2	Full Name Of Inventor	Family Name	First Given Name		Second Given Name
0	Residence & Citizenship	City	State or Foreign Country		Country of Citizenship
4	Post Office Address	Post Office Address	City		State & Zip Code/Country
Sign	nature of Inventor	204:		Date:	

§ 1.56 Duty t disclose information material t patentability.

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- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office it the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which frat on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
- (1) Each inventor named in the application:
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney agent, or inventor.